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2/15

BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/050 888
Source: O1PE
Date Processed by STIC: 2/6/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/050, 888

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 Wrapped Nucleic
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to 3; this will prevent "wrapping."

2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 Variable Length Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7 Skipped Sequences
 (OLD RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(ii) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 Skipped Sequences
 (NEW RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.

10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11 Use of <220>
 "bug" Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 Misuse of n n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/050,888

DATE: 02/06/2002
TIME: 07:28:41

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\02062002\J050888.raw

pp 1-3
Does Not Comply
Corrected Diskette Needed

3 <110> APPLICANT: Gesteland, Raymond F.
4 Giddings, Michael C.
5 Matveeva, Olga V.
6 Atkins, John F.
8 <120> TITLE OF INVENTION: Finding Active Antisense Oligonucleotides Using
9 Artificial Neural Networks
11 <130> FILE REFERENCE: T9479.B
C140> CURRENT APPLICATION NUMBER: US/10/050,888
15 <141> CURRENT FILING DATE: 2002-01-14
17 <150> PRIOR APPLICATION NUMBER: US 60/262,993
19 <151> PRIOR FILING DATE: 2001-01-19
21 <160> NUMBER OF SEQ ID NOS: 20
23 <210> SEQ ID NO: 1
25 <211> LENGTH: 21
27 <212> TYPE: DNA
W--> 29 <213> ORGANISM: *mandatory narrative identifier and response needed*
31 <400> SEQUENCE: 1
33 cctctttccc ttaccctcct g 21
35 <210> SEQ ID NO: 2
37 <211> LENGTH: 20
39 <212> TYPE: DNA
W--> 41 <213> ORGANISM: *(see item 10
on Errata Summary
sheet)*
43 <400> SEQUENCE: 2
45 gtcagccatg gtcccccccc 20
47 <210> SEQ ID NO: 3
49 <211> LENGTH: 21
51 <212> TYPE: DNA
W--> 53 <213> ORGANISM:
55 <400> SEQUENCE: 3
57 ctttagctca gctccctcag g 21
59 <210> SEQ ID NO: 4
61 <211> LENGTH: 21
63 <212> TYPE: DNA
W--> 65 <213> ORGANISM:
67 <400> SEQUENCE: 4
69 cctattccct ttcctcccaa a 21
71 <210> SEQ ID NO: 5
73 <211> LENGTH: 21
75 <212> TYPE: DNA
W--> 77 <213> ORGANISM:
79 <400> SEQUENCE: 5
81 tccactcccc cgatccactc a 21
83 <210> SEQ ID NO: 6

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/050,888

DATE: 02/06/2002
TIME: 07:28:41

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\02062002\J050888.raw

85 <211> LENGTH: 21
87 <212> TYPE: DNA
W--> 89 <213> ORGANISM:
91 <400> SEQUENCE: 6
93 aacccttatt tgtgtccac c 21
95 <210> SEQ ID NO: 7
97 <211> LENGTH: 20
99 <212> TYPE: DNA
W--> 101 <213> ORGANISM:
103 <400> SEQUENCE: 7
106 ccccccaccac ttcccccttc 20
108 <210> SEQ ID NO: 8
110 <211> LENGTH: 20
112 <212> TYPE: DNA
W--> 114 <213> ORGANISM:
116 <400> SEQUENCE: 8
118 cgggtccctt caagatccat 20
120 <210> SEQ ID NO: 9
122 <211> LENGTH: 20
124 <212> TYPE: DNA
W--> 126 <213> ORGANISM:
128 <400> SEQUENCE: 9
130 tgcttaccct cccacagcag 20
132 <210> SEQ ID NO: 10
134 <211> LENGTH: 21
136 <212> TYPE: DNA
W--> 138 <213> ORGANISM:
140 <400> SEQUENCE: 10
142 agagccacaaa ttccctttct a 21
144 <210> SEQ ID NO: 11
146 <211> LENGTH: 14
148 <212> TYPE: DNA
W--> 150 <213> ORGANISM:
152 <400> SEQUENCE: 11
154 cgaggccacc actc 14
156 <210> SEQ ID NO: 12
158 <211> LENGTH: 15
160 <212> TYPE: DNA
W--> 162 <213> ORGANISM:
164 <400> SEQUENCE: 12
166 ccaccactca tctcg 15
168 <210> SEQ ID NO: 13
170 <211> LENGTH: 21
172 <212> TYPE: DNA
W--> 174 <213> ORGANISM:
176 <400> SEQUENCE: 13
178 ccccccaccac ttcccccttc a 21
180 <210> SEQ ID NO: 14
182 <211> LENGTH: 20

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/050,888

DATE: 02/06/2002
TIME: 07:28:41

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\02062002\J050888.raw

184 <212> TYPE: DNA
W--> 186 <213> ORGANISM:
188 <400> SEQUENCE: 14
190 cattccatga actctgcaag 20
192 <210> SEQ ID NO: 15
194 <211> LENGTH: 21
196 <212> TYPE: DNA
W--> 198 <213> ORGANISM:
200 <400> SEQUENCE: 15
202 cccttaggtt tccccagcaag c 21
204 <210> SEQ ID NO: 16
206 <211> LENGTH: 15
208 <212> TYPE: DNA
W--> 210 <213> ORGANISM:
212 <400> SEQUENCE: 16
214 ttgtgttccc acctg 15
216 <210> SEQ ID NO: 17
218 <211> LENGTH: 21
220 <212> TYPE: DNA
W--> 222 <213> ORGANISM:
224 <400> SEQUENCE: 17
226 tgatccactc cccccctccac t 21
228 <210> SEQ ID NO: 18
230 <211> LENGTH: 20
232 <212> TYPE: DNA
W--> 234 <213> ORGANISM:
236 <400> SEQUENCE: 18
238 tgccagtcatacatgtttt 20
240 <210> SEQ ID NO: 19
242 <211> LENGTH: 21
244 <212> TYPE: DNA
W--> 246 <213> ORGANISM:
248 <400> SEQUENCE: 19
250 tgatccactc cccccctccac t 21
252 <210> SEQ ID NO: 20
254 <211> LENGTH: 20
256 <212> TYPE: DNA
W--> 258 <213> ORGANISM:
260 <400> SEQUENCE: 20
262 aaccctaggc tccctttgc 20

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/050,888

DATE: 02/06/2002
TIME: 07:28:42

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\02062002\J050888.raw

L:13 M:270 C: Current Application Number differs, Replaced Application Number
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:29 M:201 W: Mandatory field data missing, <213> ORGANISM
L:41 M:201 W: Mandatory field data missing, <213> ORGANISM
L:53 M:201 W: Mandatory field data missing, <213> ORGANISM
L:65 M:201 W: Mandatory field data missing, <213> ORGANISM
L:77 M:201 W: Mandatory field data missing, <213> ORGANISM
L:89 M:201 W: Mandatory field data missing, <213> ORGANISM
L:101 M:201 W: Mandatory field data missing, <213> ORGANISM
L:114 M:201 W: Mandatory field data missing, <213> ORGANISM
L:126 M:201 W: Mandatory field data missing, <213> ORGANISM
L:138 M:201 W: Mandatory field data missing, <213> ORGANISM
L:150 M:201 W: Mandatory field data missing, <213> ORGANISM
L:162 M:201 W: Mandatory field data missing, <213> ORGANISM
L:174 M:201 W: Mandatory field data missing, <213> ORGANISM
L:186 M:201 W: Mandatory field data missing, <213> ORGANISM
L:198 M:201 W: Mandatory field data missing, <213> ORGANISM
L:210 M:201 W: Mandatory field data missing, <213> ORGANISM
L:222 M:201 W: Mandatory field data missing, <213> ORGANISM
L:234 M:201 W: Mandatory field data missing, <213> ORGANISM
L:246 M:201 W: Mandatory field data missing, <213> ORGANISM
L:258 M:201 W: Mandatory field data missing, <213> ORGANISM